WHAT IS CLAIMED IS:

- 1. A transmitter device for communicating with a plurality of receiver devices in a cell through radio channels, said transmitter device comprising:
 - an OFDM transmission means;
 - a MC-CDMA transmission means; and
- a control means for selecting either said OFDM transmission means or said MC-CDMA transmission means at slot time assigned to the receiver device in response to propagation conditions for the receiver device.
- 2. The transmitter device as claimed in claim 1, wherein said control means dynamically selects a modulation scheme and a channel coding rate in both said OFDM transmission means and said MC-CDMA transmission means, and further dynamically selects a spreading rate when using said MC-CDMA transmission means.
- 3. The transmitter device as claimed in claim 1, wherein said propagation conditions are a distance from said receiver device and a ratio of carrier power to interference signal power and noise power.
- 4. The transmitter device as claimed in claim 3, wherein said control means selects said OFDM transmission means when the distance is short and the a ratio of carrier power to interference signal power and noise power is high, and said MC-CDMA transmission means when the distance is long or the ratio of carrier power to interference signal power and

noise power is low.

- 5. The transmitter device as claimed in claim 3, wherein said propagation conditions further include a delay spread and a maximum Doppler frequency.
- 6. The transmitter device as claimed in claim 1, wherein said transmitter device further comprises a transmit power control means for controlling a transmit power at slot time assigned to the receiver device.
- 7. The transmitter device as claimed in claim 1, wherein said transmitter device further comprises a means for performing site diversity to the receiver device sited in a boundary of between said cells so that said transmitter device simultaneously transmits the same signal as other transmitter device in other cell.
- 8. A transmitting method of a device for communicating with a plurality of devices in a cell through radio channels, said transmitting method comprising the steps of:

selecting either an OFDM scheme or a MC-CDMA scheme at slot time assigned to said receiver device in response to propagation conditions for said receiver device; and transmitting signal by using said selected scheme.

9. The transmitting method as claimed in claim 8, wherein said selecting step dynamically selects a modulation scheme and a channel coding rate, and further dynamically selects a

spreading rate when using said MC-CDMA scheme.

- 10. The transmitting method as claimed in claim 8, wherein said propagation conditions are a distance from the receiver device and a ratio of carrier power to interference signal power and noise power.
- 11. The transmitting method as claimed in claim 10, wherein said selecting means selects said OFDM scheme when said distance is short and a ratio of carrier power to interference signal power and noise power is high, and said MC-CDMA scheme when the distance is long or the ratio of carrier power to interference signal power and noise power is low.
- 12. The transmitting method as claimed in claim 10, wherein said propagation conditions further includes a delay spread and a maximum Doppler frequency.
- 13. The transmitting method as claimed in claim 8, wherein said method further comprises a step of controlling a transmit power control at slot time assigned to the receiver device.